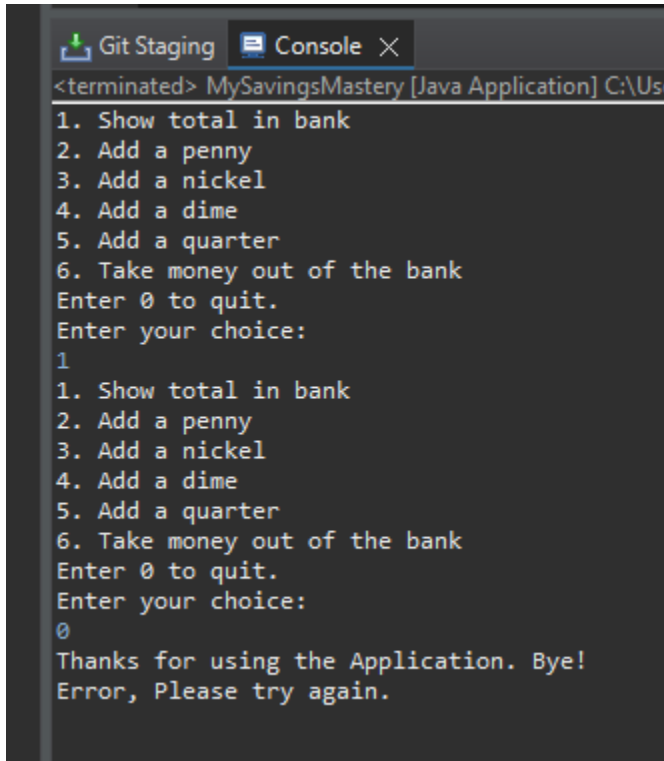Credit Name: CSE 3120 Object-Oriented Programming 1
Assignment Name: Digit Extractor Mastery
Decribe the errors you've encountered while working on this assignment. What caused the error and how do you overcome the error?

Error 1:

I am done coding and there are no errors noted by eclipse, so I ran the program.
Something wasn't working right, because it wouldn't show total in the bank = 0 when I chose that option. Also, when I quit the program, It gave me the error message at the end!

I kept running the code in console, I realized that my switch statement wasn't running at all, and only the default statement was being displayed.
The while loop kept running only the menu and quit option, but the switch output was being skipped.

I decided to check over the curly brackets in the code, just to make sure something isn't being excluded.

I found the problem, the while loop ended before the switch statement! I accidentally closed the loop at the wrong spot.

```java
while (true) {

    //options that the user can choose from
    System.out.println("1. Show total in bank");
    System.out.println("2. Add a penny");
    System.out.println("3. Add a nickel");
    System.out.println("4. Add a dime");
    System.out.println("5. Add a quarter");
    System.out.println("6. Take money out of the bank");
    System.out.println("Enter 0 to quit.");
    System.out.println("Enter your choice:");

    //user input stored in the choice variable
    choice = input.nextInt();

    //if choice is option 0, end program
    if (choice == 0) {
        System.out.println("Thanks for using the Application. Bye!");
        break;
    }
}
```
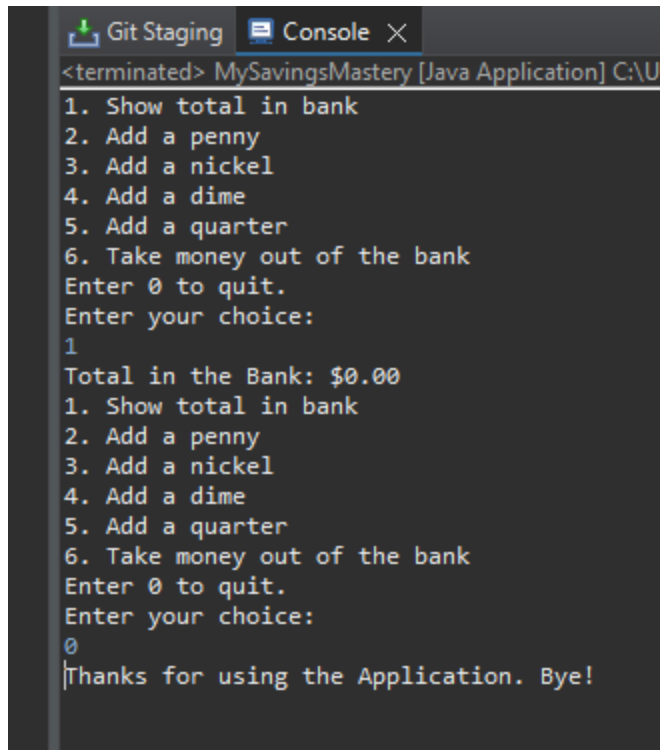
I went back in the code and changed the location if the ending bracket.

```java
while (true) {
    //options that the user can choose from
    System.out.println("1. Show total in bank");
    System.out.println("2. Add a penny");
    System.out.println("3. Add a nickel");
    System.out.println("4. Add a dime");
    System.out.println("5. Add a quarter");
    System.out.println("6. Take money out of the bank");
    System.out.println("Enter 0 to quit.");
    System.out.println("Enter your choice:");
    //user input stored in the choice variable
    choice = input.nextInt();
    //if choice is option 0, end program
    if (choice == 0) {
        System.out.println("Thanks for using the Application.
        break;
    }
    //switch statement uses the choice variable to output the
    switch (choice) {
    //show total
    case 1:
        System.out.printf("Total in the Bank: $%.2f\n", PiggyB
        break;
    //add penny
    case 2:
        PiggyBank.addPenny();
        System.out.println("Added a penny.");
        break;
    //add nickel
    case 3:
        PiggyBank.addNickel();
        System.out.println("Added a nickel.");
        break;
    //add dime
    case 4:
        PiggyBank.addDime();
        System.out.println("Added a dime.");
        break;
    //add quarter
    case 5:
        PiggyBank.addQuarter();
        System.out.println("Added a quarter.");
        break;
    //take all money out of the bank
    case 6:
        PiggyBank.takeMoneyOut();
        System.out.println("All money has been removed from th
        break;
    //default switch statement
    default:
        System.out.println("Error, Please try again.");
    }
}
```

Now, the switch statement is included in the while loop.

It is now running the switch cases, because I can see the total in bank is 0.

Program is now working fine!